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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,434	01/31/2006	Toshiaki lio	28951.1171	5074
53667 7550 07/18/2008 STEPTOE & JOHNSON LLP 1330 CONNECTICUT AVE., NW			EXAMINER	
			DANEGA, RENEE A	
WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			3736	
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			07/18/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

#### Application No. Applicant(s) 10/566,434 IIO ET AL. Office Action Summary Examiner Art Unit RENEE DANEGA 3736

 Period for	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Reply			
WHICH - Extens after S - If NO p - Failure Any re	RETENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, HEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. toms of time may be available under the provisions of 37 CFR 1136(a). In no event, however, may a reply be timely filled X (6) MCNTHS from the mailing date of this communication. And the provision of the provision of 37 CFR 1136(a) in no application become ABANDCNED (35 U.S.C, § 133). by received by the Office later than three months after the making date of this communication, even if timely filled, may reduce any plantet term adjustments. So 37 CFR 1.704(b).			
Status				
1) 🛛 F	Responsive to communication(s) filed on 31 January 2006.			
2a)□ 1	This action is FINAL. 2b)⊠ This action is non-final.			
3) 🗌 💲	3) Since this application is in condition for allowance except for formal matters, prosecution as to the men			
C	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Dispositio	on of Claims			
4)🛛 (	Claim(s) <u>1-31</u> is/are pending in the application.			
4	a) Of the above claim(s) 32-43 is/are withdrawn from consideration.			
	Claim(s) is/are allowed.			
	Claim(s) <u>1-31</u> is/are rejected.			
	Claim(s) is/are objected to.			
8)(	Claim(s) are subject to restriction and/or election requirement.			
Application	on Papers			
9)□ ⊤	he specification is objected to by the Examiner.			
10)□ T	he drawing(s) filed on is/are: a)  accepted or b)  objected to by the Examiner.			
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11)∐ T	he oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority ur	nder 35 U.S.C. § 119			
	cknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
	All b) Some * c) None of:			
	Certified copies of the priority documents have been received.			
	C. Certified copies of the priority documents have been received in Application No			
3	B. Copies of the certified copies of the priority documents have been received in this National Stage			
* 0-	application from the International Bureau (PCT Rule 17.2(a)).			
- 56	ee the attached detailed Office action for a list of the certified copies not received.			
Attachment(	s)			
5.78				

- 1) Notice of References Cited (PTO-892)
  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
  3) Notice of Draftsperson's Patent Drawing Review (PTO-948)
  3) Information Disclosure Statement(s) (PTO/SE/CS) Paper No(s)/Mail Date 4/26/08.
- 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. \_\_ 5) Notice of Informal Patent Application.
- 6) Other: \_

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# DETAILED ACTION

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-31, drawn to puncture instruments.

Group II, claim(s) 32-43, drawn to puncture needle disposal instruments.

- 2. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group II has the special technical feature of a puncture needle disposal instrument not found in Group I.
- 3. During a telephone conversation with Mr. Roger Parkhurst on 14 July 2008 a provisional election was made with traverse to prosecute the invention of group I, claims 1-31. Affirmation of this election must be made by applicant in replying to this Office action. Claims 32-43 withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

# Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neadtived by the manner in which the invention was made. Application/Control Number: 10/566,434 Page 3

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 Claims 1-7, 26-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rouviere (FR 2797579) in view of Grunert et al. (US 3030959).

- Regarding claim 1, Rouviere teaches a puncture instrument (A) which houses a plurality of puncture needles (F) for puncturing the surface of a biologic body and is able to perform puncture operations continuously in which the needles are connected in series (1, 2, 3) in the axis direction of the puncture instrument (Figures 6, 9). Rouviere further teaches the instrument able to be refilled from needle columns kept in hermetically sealed packs (page 6, line 35 page 7 line 4) but doesn't teach the column to be in a cartridge. However, Grunert teaches a puncture needle cartridge for needles kept in axial alignment for use in a puncture device (claim 1). It would have been obvious in view of Grunert to put Rouviere's needles in a cartridge in order to maintain sterility when refilling the puncture instrument.
- Regarding claim 2, Rouviere's needle columns are stacked in such a
  manner that the front end of the puncture needle is protected by a portion
  of another puncture needle at a rear end of the puncture needle (figure 9).
- Regarding claim 3, Rouviere teaches puncture needles comprising a
  needle part (Fa) and elastic deformation member (F1) wherein the front
  end of the puncture needle is protected by an elastic deformation member
  of another puncture needle which is positioned at the rear end of the
  puncture needle (Figures 3, 4), but doesn't teach the cartridge to hold the

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needles in this state. However, Grunert teaches a puncture needle cartridge for needles kept in axial alignment for use in a puncture device (claim 1). It would have been obvious in view of Grunert to put Rouviere's needles in a cartridge in order to maintain sterility when refilling the puncture instrument.

- Regarding claim 4, Rouviere doesn't teach the puncture needle cartridge stopping member. However, Grunert teaches a cylindrical needle cartridge with a puncture needle cartridge stopping member for stopping the cartridge at a pre-determined position in a case, a biasing member for biasing the cartridge in one direction, and a puncture button for starting a puncture operation (column 3, lines 39-65). It would have been obvious in view of Grunert to provide biasing member and puncture button in order to control of the needles and cartridge within the puncture instrument.
- Regarding claim 5, Rouviere teaches a remaining quantity check means
   (J) for checking the remaining quantity of the plural puncture needles
   (Figure 7).
- Regarding claim 6, Rouviere teaches the remaining quantity check means to have a check window (J) on the side of the puncture instrument (Figure 7).
- Regarding claim 7, Rouviere doesn't teach a puncture needle cartridge to be detachably provided in the puncture instrument. However, Grunert teaches a puncture needle cartridge detachably provided in the puncture

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instrument (column 3, lines 55-65). It would have been obvious in view of Grunert to provide a detachable needle cartridge in Rouviere's device to enable sterile reloading of the puncture instrument.

- Regarding claim 26, Rouviere teaches a puncture instrument (A) which houses a plurality of puncture needles (F) for puncturing the surface of a biologic body and is able to perform puncture operations continuously in which the needles are connected in series (1, 2, 3) in the axis direction of the puncture instrument (Figures 6, 9). Rouviere teaches a puncture needle replacement jig (B) which is able to remove the used puncture needle and set the puncture needle at a puncture operation start position (Figure 12). Rouviere further teaches the instrument able to be refilled from needle columns kept in hermetically sealed packs (page 6, line 35 page 7 line 4) but doesn't teach the column to be in a cartridge. However, Grunert teaches a puncture needle cartridge for needles kept in axial alignment for use in a puncture device (claim 1). It would have been obvious in view of Grunert to put Rouviere's needles in a cartridge in order to maintain sterility when refilling the puncture instrument.
- Regarding claim 27, Rouviere teaches the replacement jib including a return member that holds the needle after puncturing and removes it (B1) (Figure 12).

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Regarding claim 28, Rouviere teaches the puncture needle replacement
jig sets the puncture needle at the start position simultaneously with the
removal of the puncture needle (Figure 12).

- Regarding claim 29, Rouviere teaches the puncture needle is removed by a replacement jig after puncturing (Figure 12) as well as stopping members holding each member in a predetermined position (C, D) (Figure 5a). Rouviere doesn't teach the needles to be in a cartridge. However, Grunert teaches a puncture needle cartridge for needles kept in axial alignment for use in a puncture device (claim 1). It would have been obvious in view of Grunert to provide a cartridge with Rouviere's stopping mechanisms in order to regulate the expulsion of the needles.
- Regarding claim 30, Rouviere teaches puncture needle retaining elastic member (D) bending within an elasticity range of the puncture needle retaining elastic member due to fitting the elastic member to the replacement jig (E) (Figure 15) to dissolve the hold.
- Regarding claim 31, Rouviere teaches a remaining quantity check means (J, K, F) (Figure 7).
- Claims 8-17 and 19-22, and 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grunert et al. (US 3030959) in view of Rouviere (FR 2797579).
  - Regarding claim 8, Grunert teaches a puncture needle cartridge which
    contains a plurality of puncture needles for puncturing the surface of a
    biologic body and is housed in a puncture instrument that is able to

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perform puncture operations continuously with the puncture needles in series in an axis direction of the puncture instrument (column 3, lines 39-72) (Figure 1). Grunert doesn't teach the needles to be connected in series. However, Rouviere teaches a column of needles being connected in series in a puncture instrument (Figures 6, 9). It would have been obvious in view of Rouviere to connect the needles in order to protect the needle portion and fit more needles in the cartridge of Grunert.

- Regarding claim 9, Grunert doesn't teach front ends of the needles fitting
  in another needle. However, Rouviere teaches connecting the needles
  such that a front end of each of the plural puncture needles is fitted to a
  portion of another puncture needle which is positioned at a rear end of the
  puncture needle (Figure 9). It would have been obvious in view of
  Rouviere to connect the needles in this manner in order to fit more
  needles into the cartridge of Grunert.
- Regarding claim 10, Rouviere's needles are connected via an elastic deformation member portion (Fb) of each needle (Fa) (Figure 5c).
- Regarding claim 11, Grunert teaches the needle cartridge to further include puncture needle stopping member for holding the respective puncture needles at predetermined positions in the cartridge (column 3, line 65-74).
- Regarding claim 12, Grunert doesn't teach the stopping members provided at a regular interval approximately equal to the length of the

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puncture needle. However Rouviere teaches stops provided at a regular interval approximately the length of the puncture needles (C) (D) (Figures 5a, 5b). It would have been obvious in view of Rouviere to provide stops in this manner in order to disconnect nested needles.

- Regarding claim 13, Grunert doesn't teach fitting strength of the needles
  larger than a load applied. However, Rouviere teaches an embodiment in
  which the needles are twist-fit together and thus remain fitted together
  when a load is applied, which must be twisted off for disposal (Figures 1214). It would have been obvious in view of Rouviere to provide a large
  fitting strength in Grunert's device in order for the operator to control the
  removal of the needle and prevent accidental sticking.
- Regarding claim 14, Grunert teaches a puncture needle retaining elastic member (9) for holding a puncture needle to prevent escape and dropout of the puncture needle from the puncture instrument body (Figure 4).
- Regarding claim 15, Grunert is silent as to whether the puncture needle
  retaining elastic member is part of the puncture cartridge. However, this is
  one of a finite number of variations (i.e. integrated with the cartridge or
  integrated with the instrument body) and would have been an obvious
  variation to one of ordinary skill in the art.
- Regarding claim 16, Grunert doesn't teach dents for retention on the
  puncture needles. However, Rouviere teaches a dent or recess on each
  side of each needle for engagement with a puncture needle stopping

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member as seen in Figure 5c. Indentations are a known stopping mechanism and would have been obvious to one of ordinary skill in the art to employ in Grunert's device.

- Regarding claim 17, Grunert teaches providing a puncture needle cap
  which protects a needle part of a puncture needle that is positioned at the
  head of the group (26) (Figure 1).
- Regarding claim 19, Grunert doesn't teach a remaining quantity check
  means. However, Rouviere teaches a remaining quantity check means (J,
  K, F) (Figure 7). It would have been obvious in view of Rouviere to
  provide a remaining quantity check means in Grunert's device in order to
  determine how many new needles remain for testing.
- Regarding claim 20, Rouviere's remaining quantity check means varies respective colors (K) (Figure 7).
- Regarding claim 21, Rouviere's remaining quantity check means assigns numbers (production codes) (page 18, lines 9-14) (Figure 13).
- Regarding claims 22-23, Grunert teaches a new puncture needle group capable of being loaded in the cartridge and that it is loaded in one direction (column 3, lines 55-72) (Figure 1).
- Regarding claim 25, Grunert teaches the cartridge to be detachable and attachable to the puncture instrument (column 3, lines 55-65) (Figure 1).

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 Claim 18 rejected under 35 U.S.C. 103(a) as being unpatentable over Grunert and Rouviere as applied to claim 8 above, and further in view of Roe (US 20030050655).

- Regarding claim 18, Grunert and Rouviere don't teach a rotation stopping
  member. However, Roe teaches a lancet with antirotation members to
  prevent the guide tube from rotating within the retaining tube [0071]. It
  would have been obvious in view of Roe to provide a stopping member on
  the needle cartridge and puncture instrument of Grunert and Rouviere in
  order to ensure longitudinal displacement of needles when a force is
  applied.
- Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Grunert and Rouviere as applied to claim 22 above, and further in view of Christensen (US 3898009).
  - Regarding claim 24, Grunert and Rouviere don't teach an improper loading prevention return member. However, Christensen teaches an improper loading prevention return member (22) for loading cartridges (26) into a housing (Figure 1) (column 2, lines 49-54). It would have been obvious in view of Christensen to provide a narrowed diameter opening on Grunert and Rouviere's device so that the needles all stack correctly and are able to be used once they traverse the axial length of the puncture body.

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### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RENEE DANEGA whose telephone number is (571)270-3639. The examiner can normally be reached on Monday through Thursday 7:30-5:00 eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (571) 272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RAD

/Max Hindenburg/ Supervisory Patent Examiner, Art Unit 3736 Art Unit: 3736